IN THE CLAIMS

Pursuant to 37 CFR §1.121(c), this listing of the claims, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please cancel claims 7 and 14 without prejudice or disclaimer of their subject matter, amend claims 4, 8, 11 and 15 as follows:

1. (Original) An apparatus for providing inter-processor communication using transmission control protocol/Internet protocol in a communication system, the apparatus comprising:

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an Ethernet interface module providing an interface between an Ethernet device driver and an inter-processor communication module, determining a type of a received message, transmitting the message when the determined type of the message is non-frame data, queuing the message in a first mailbox corresponding to frame data when the determined type of the message is the frame data;

a message process module receiving the message transmitted by said Ethernet interface module, queuing the message received from said Ethernet interface module in a second mailbox corresponding to the non-frame data; and

a common application programming interface module providing an interface for performing data transmission and reception through said message process module, for management of the first and second mailboxes, for inter-processor communication buffer management, and for an inter-processor communication control function, said common application programming interface module being in communication with said Ethernet interface module and said message process module.

- 2. (Original) The apparatus of claim 1, said message process module determining a number of messages queued in the second mailbox, deleting oldest messages from the second mailbox, and queuing latest messages in the second mailbox when the number of messages is greater than a predetermined number of messages.
 - 3. (Original) The apparatus of claim 1, said common application programming interface

2	module, Ethernet interface module, and message process module communicating with each other
3	in accordance with transmission control protocol/Internet protocol.
1	4. (Currently Amended) A system providing inter-processor communication using
2	transmission control protocol/Internet protocol, the system comprising:
3	an access network controller being coupled to an Ethernet network and operating in
4	accordance with software instructions corresponding to 1x evolution-data only (1xEV-DO);
5	a wide area switching module being coupled to the Ethernet network and performing
.6	operation and state management;
7	a data location register being coupled to the Ethernet network, performing subscriber
8	management and providing session information to said access network controller;
9	an element management system being coupled to the Ethernet network and performing
10	operation and management of the Ethernet network and said data location register;
11	a server being coupled to the Ethernet network and performing authentication for a 1x
12	evolution-data only (1xEV-DO) subscriber; and
13	an access network transceiver system transmitting 1x evolution-data only (1xEV-DO) data
14	and signalling data to said access network controller through the Ethernet network;
15	said access network controller performing a matching function with said access network
16	transceiver system for a packet data service, and performing call processing corresponding to 1x
17	evolution-data only (1xEV-DO);
18	said access network controller, wide area switching module, and element management system
19	communicating with each other by transmission control protocol/Internet protocol through the
20	Ethernet network;
21	at least one communication subsystem;
22	wherein the communication subsystem comprising
23	an Ethernet interface module providing an interface between an Ethernet
24	device driver and an inter-processor communication module, the Ethernet device driver being

communication with the Ethernet network, said Ethernet interface module determining a type of a
received message, transmitting the message when the determined type of the message is non-frame
data, queuing the message in a first mailbox corresponding to frame data when the determined type
of the message is the frame data;

a message process module receiving the message transmitted by said Ethernet interface module, queuing the message received from said Ethernet interface module in a second mailbox corresponding to the non-frame data; and

a common application programming interface module providing an interface for performing data transmission and reception through said message process module, for management of the first and second mailboxes, for inter-processor communication buffer management, and for an inter-processor communication control function, said common application programming interface module being in communication with said Ethernet interface module and said message process module, the inter-processor communication module being selected from among said access network controller, said wide area switching module, and said element management system.

- 5. (Original) The system of claim 4, said server corresponding to an access network-authorization, authentication, accounting server providing system management, an operator interface, and a graphic user interface for maintenance.
- 6. (Original) The system of claim 5, the system corresponding to an Internet protocol based evolution-data only (EV-DO) system.

Claim 7. (Canceled)

8. (Currently Amended) The system of claim [[7]] 6, said message process module

determining a number of messages queued in the second mailbox, deleting oldest messages from the second mailbox, and queuing latest messages in the second mailbox when the number of messages is greater than a predetermined number of messages.

- 9. (Original) The system of claim 8, said common application programming interface module, Ethernet interface module, and message process module communicating with each other in accordance with transmission control protocol/Internet protocol.
- 10. (Original) The system of claim 9, the communication subsystem including software for transmitting and receiving the messages between application tasks in said access network controller, wide area switching module, and element management system.
- 11. (Currently Amended) A method providing inter-processor communication using transmission control protocol/Internet protocol in a communication system, the method comprising: operating an access network controller in accordance with software instructions corresponding to 1x evolution-data only (1xEV-DO), the access network controller being coupled to an Ethernet network, the access network controller performing call processing corresponding to 1x evolution-data only (1xEV-DO);

performing operation and state management with a wide area switching module coupled to the Ethernet network;

performing subscriber management with a data location register coupled to the Ethernet network, the data location register providing session information to the access network controller;

performing operation and management of the Ethernet network and of the data location register with an element management system coupled to the Ethernet network;

performing authentication for a 1x evolution-data only (1xEV-DO) subscriber with a server coupled to the Ethernet network; [[and]]

transmitting 1x evolution-data only (1xEV-DO) data and signalling data to the access

network controller through the Ethernet network with an access network transceiver system, the access network controller performing a matching function with the access network transceiver system for a packet data service; [[and]]

performing intercommunication between the access network controller, wide area switching module, and element management system by transmission control protocol/Internet protocol through the Ethernet network;

determining a type of a received message;

transmitting the message when the determined type of the message is non-frame data;

queuing the message in a first mailbox corresponding to frame data when the determined type

of the message is the frame data;

said determining, said transmitting, and said queuing of the message in the first mailbox being performed by an Ethernet interface module provided between an Ethernet device driver and an inter-processor communication module, the inter-processor communication module being selected from among the access network controller, the wide area switching module, and the element management system, the Ethernet device driver being communication with the Ethernet network;

receiving the message transmitted by the Ethernet interface module at a message process module;

queuing the message received from the Ethernet interface module in a second mailbox corresponding to the non-frame data, said queuing of the message in the second mailbox being performed by the message process module; and

providing a common application programming interface module for performing data transmission and reception through the message process module, for management of the first and second mailboxes, for inter-processor communication buffer management, and for an inter-processor communication control function, the common application programming interface module being in communication with the Ethernet interface module and the message process module.

12. (Original) The method of claim 11, the server corresponding to an access n	etwork-
authorization, authentication, accounting server providing system management, an operator in	nterface,
and a graphic user interface for maintenance.	

13. (Original) The method of claim 12, the communication system corresponding to an Internet protocol based evolution-data only (EV-DO) system.

Claim 14. (Canceled)

- 15. (Currently Amended) The method of claim [[14]] 11, further comprising: determining a number of messages queued in the second mailbox; deleting oldest messages from the second mailbox; and
- queuing latest messages in the second mailbox when the number of messages is greater than a predetermined number of messages, said determining of the number of messages queued in the second mailbox, said deleting of the oldest messages, and said queuing of the latest messages being performed by the message process module.
- 16. (Original) The method claim 15, the common application programming interface module, Ethernet interface module, and message process module communicating with each other in accordance with transmission control protocol/Internet protocol.